MODEL

GVT AVIO: 2006E VER2.1, EUROPE TYPE.

DMN8602MK AV I/O Board WITH 7.1CH OUT, DURL SCART(SIMPLE) DESIGNED FOR CONTEL (EUROPE TYPE with CANAL+) THE LAST UPDATED DATE:2004/07/18

REVISION HISTORY

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	REV	DATE 05/17/2004	DESCRIPTION Initial Draft
0.0	1	03/17/2004	
0.1	2	05/28/2004	REMOVE RTC.GND.FB160.FB173 ETC
			RENAME W1 TO FB10,J21 TO J8,J9 TO J7.
			CHANGE 8776 CONTROL MODE FORM TWO WIRE TO SPI
			ADD U1 (MM1225) TO SWITCH SCART CVBS IN WITH TV_CVBS_IN.SO THE SCART INTERFACE IS COMPATIBLE WITH 8600 MCDE.
		06/01/2004	ADD FMUTE SIGNAL J14 FORM FRONT PANEL
		06/07/2004	RECONNECT THE AUDIO CODEC POWER (A5V with 78105 & D5V)
		06/10/2004	REDIFINE THE REAR PANEL INTERFACE
1.0	3	06/15/2004	ADD DURL SCART CIRCUIT, REMOVE J6, J8, J9, J12, J14, CHANGE J10, J11
2.0	4	06/17/2004	ADD SCART CANAL+ INTERFACE
		06/30/2004	MODIFY SCART CANAL+ INTERFACE

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	GVT_AVIO 2008C SCHEMATIC			
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THORIUM REV-A2B2

Layout----THORIUM-A2B2

Background

This DVD design is based on ESS ES6820/22/26 single chip DVD mpeg and servo processor. The ES6820/22/26 is built upon ESS proven Programmable Multimedia Processor architecture with integrated servo DSP. A complete DVD design using ES6603 RF-Amp can support all major popular optical pickup heads. With ES68xx unify memory architecture, the whole system memory is reduced to a minimum. ES6820/22/26 provides the best price performance DVD solution in the industry and include the latest MPEG4/DivX playback capability. andy_ho@esstech.com.hk

System Clock Requirement

ES6820/22/26 require a 27MHz clock to operate. This 27MHz can either be generated externally and feed into pin 193 and pin 195 or thru a 27MHz crystal attached to pin 193 and 194. This 27Mhz will be used for all video processing reference. In addition, internal multiplier will generate a much higher operating frequency for the internal RISC+DSP code to operate. Audio clock is generated from ES6820/22/26 by its internal PLL circuitry.

SDRAM Usage

ES6820/22/26 supports different SDRAM configuration from 1Mx16, 4Mx16 to 8Mx16 SDRAM. The basic requirement can go as low to 2 pcs of 1Mx16 SDRAM with standard feature set. You can also make use of 8Mx16 SDRAM to achieve longer ESP antishock time for portable application.

System Configuration

CHIP	FUNCTION
ES6820/22/26	Single chip processor that handles all system control, DVD decoding and servo control.
32/64MBit SDRAM	Data storage and frame buffer using either 1 pc of 4Mx16 SDRAM or 2 pcs of 1Mx16 SDRAM
4/8Mbit EPROM/FLASH	Program storage using either 4Mbit Flash or 8Mbit Flash
24C01 SERIAL EE	System setup configuration storage

LCSx#	FUNCTION	
LCS0#	SPARE	
LCS1#	I/O expand	
LCS2#	SPARE	
LCS3#	ROM/FLASH	

AUXx	FUNCTION
AUX0	I2C DATA
AUX1	I2C CLOCK
AUX2	VFD DATA
AUX3	AUDIO BUFFER CONTROL
AUX4	IR/SPARE
AUX5	AMP_PWR/DFCT
AUX6	VFD CS#
AUX7	VFD CLK/IR

EAU	Xxx	FUNCTION
	00	SCARTCTL0
	01	SCARTCTL1
	02	GND
	03	SCARTCTL2
1		

AUXxx	FUNCTION
12	RXD1
13	TXD1
16	HSYNC
17	VSYNC
30	SPARE
31	SPARE
32	SPARE/VFDCLK
33	SPARE
34	SPARE
35	SPARE
36	SPARE
37	SPARE

ES6820/22/26 + DV342/502W/DL3F/KHM310 + OUTPUT

Revision History

Rev-A

Base on SMITH-A2B2'S design

Rev-A2

- 1.Add R202,R203,R204,R205 for B,D swap option.
- 2.Add pull low resistor R206 to AMPSTBY.
- 3.Delete the connection from CE to FOCUS; delete the connection from RFENV to SLED.
- 4.Change R59,R62,Q7,Q8,Q9 to open;change R60 to 0 ohm.
- 5. Revise the pickup configure table, add R43, R51, RR6, RR8 option, only 502W is confirmed.
- 6. Change R201 to open; add a pull low resistor option to HOMESW.
- 7.Change R77 to 6.8K.
- 8. Modify the two channel circuit(add 74HCT174), modify the filter parameter.
- 9. Change DV342 to default pickup.
- 10.Change R63 from 33K to 56K; short D9; R206 from 4.7K to 3.3K.
- 11.Change R45 and R46 from 4.7K to open.
- 12.Change C3,C4 from 27pf to 22pf.
- 13.Change U24 to 74ACT174.

Rev-A3

- 1.Short and delete D9.
- 2.Delete R200.
- 3.Change driver from AM5869S to AM5888S.
- 4.Move C223 to C140, move C224 to C150, move C225 to C160, move C226 to C168.
- 5.Change C216,C217,C159,C167 to NPO type capacitor.
- 6.Change R77 from 6.8K to 9.1K.

Rev-A4

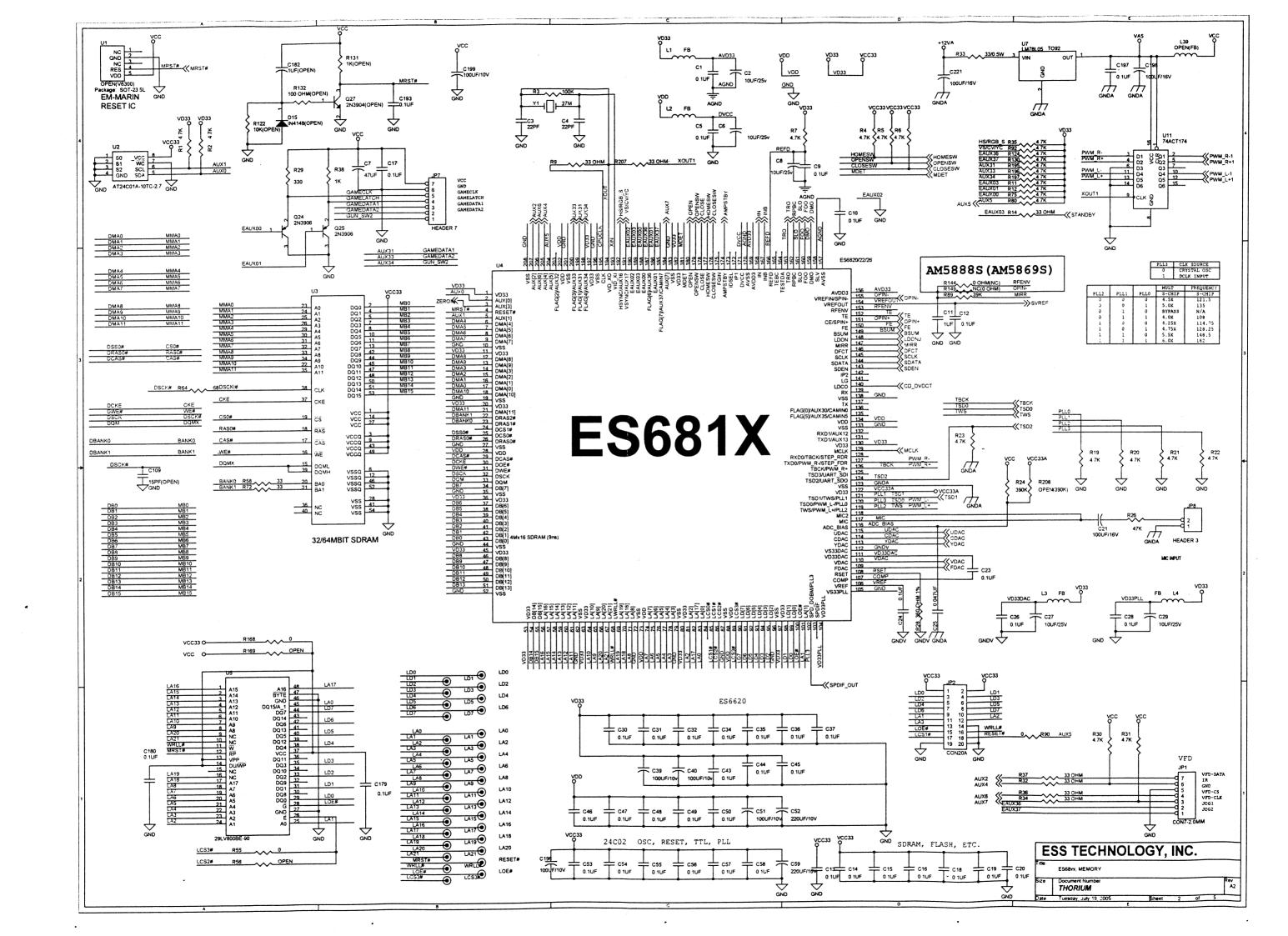
- 1.Add test port
- 2.Place output socket
- 3.WM8766.17pin & WM8766.28pin change 3.3v to A5V of power

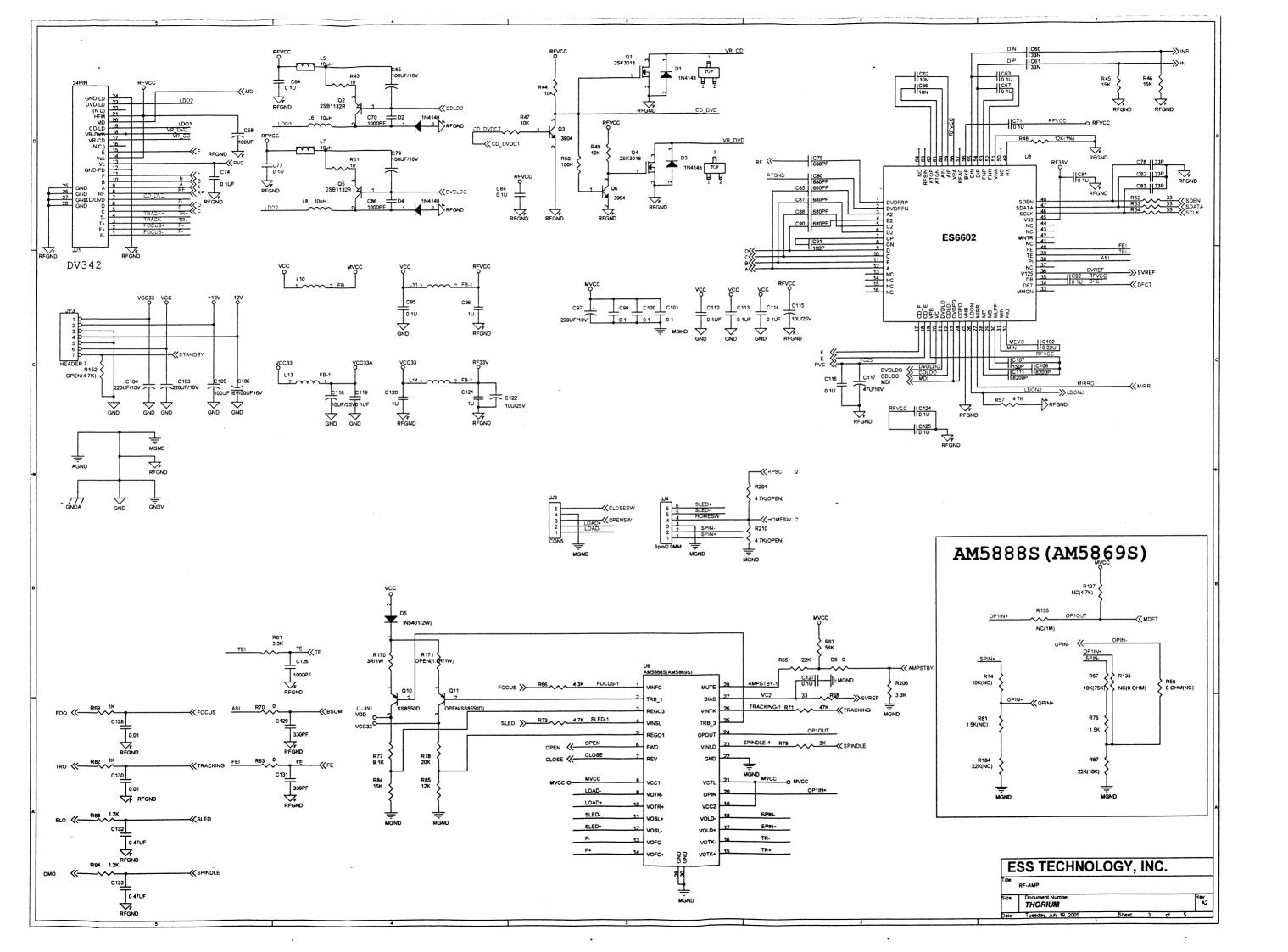
Rev-A

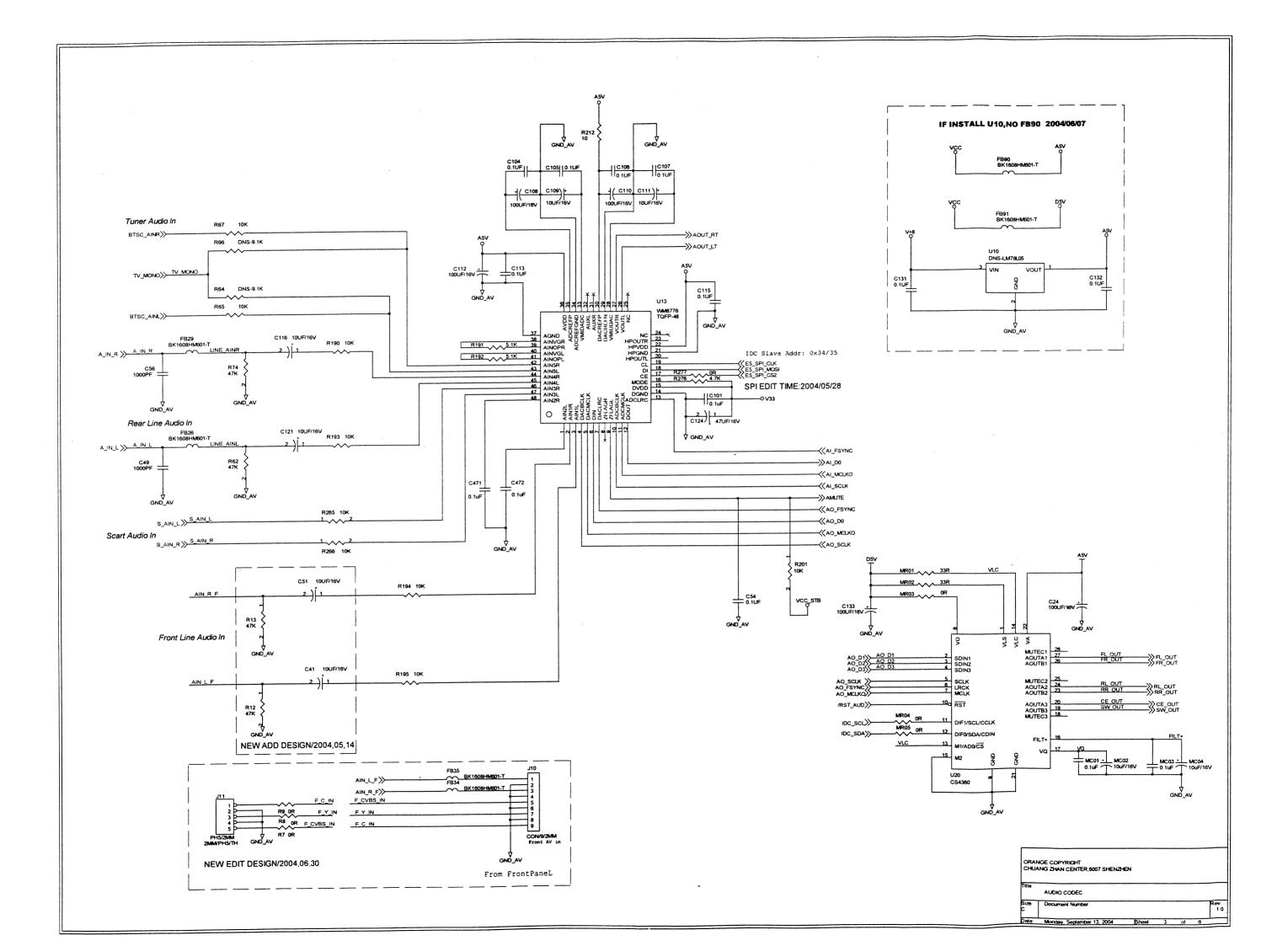
1.Change C62,C66 to 10NF,C60,C61 to 33NF,R45,R46 to 15K.

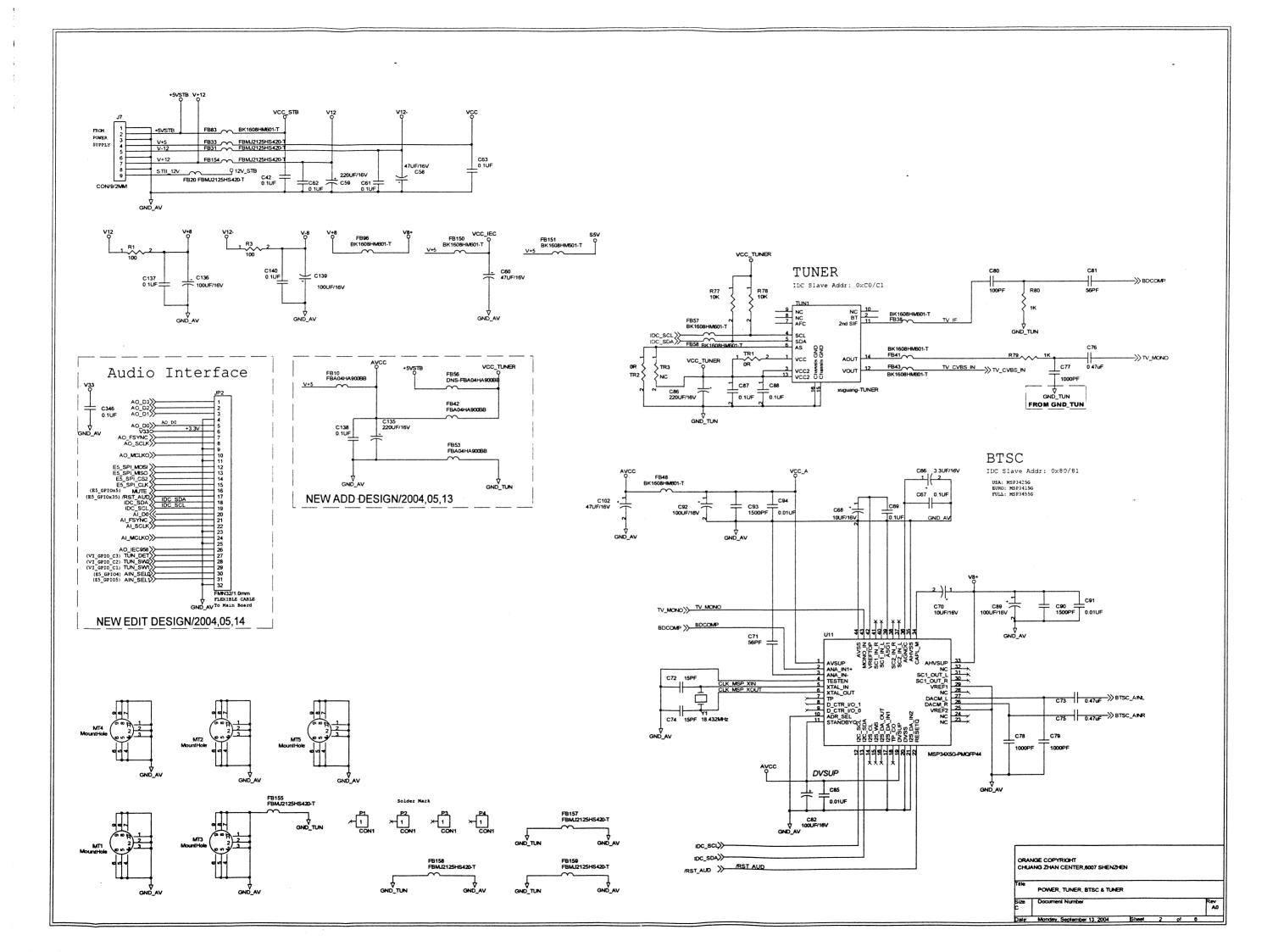
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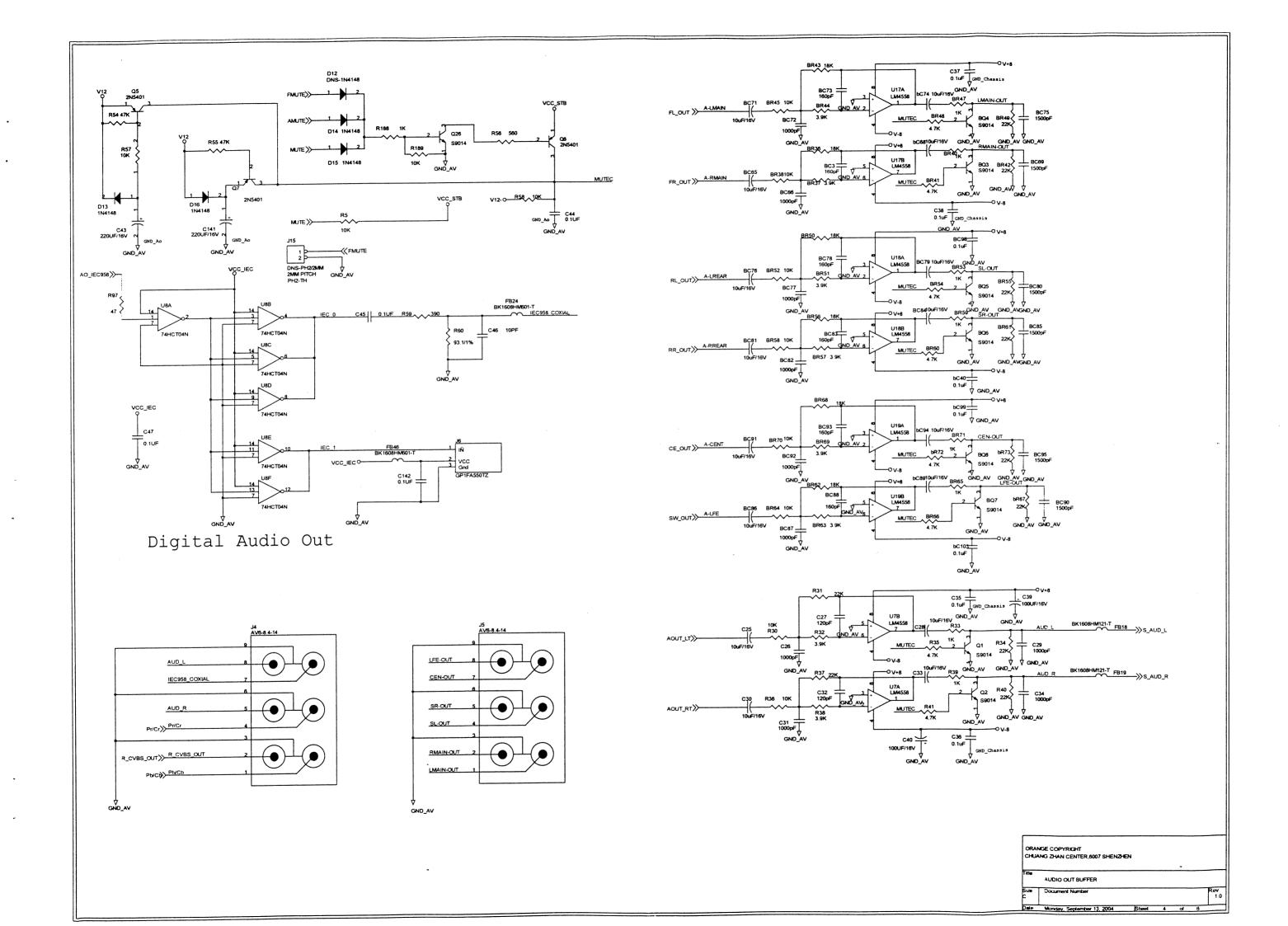
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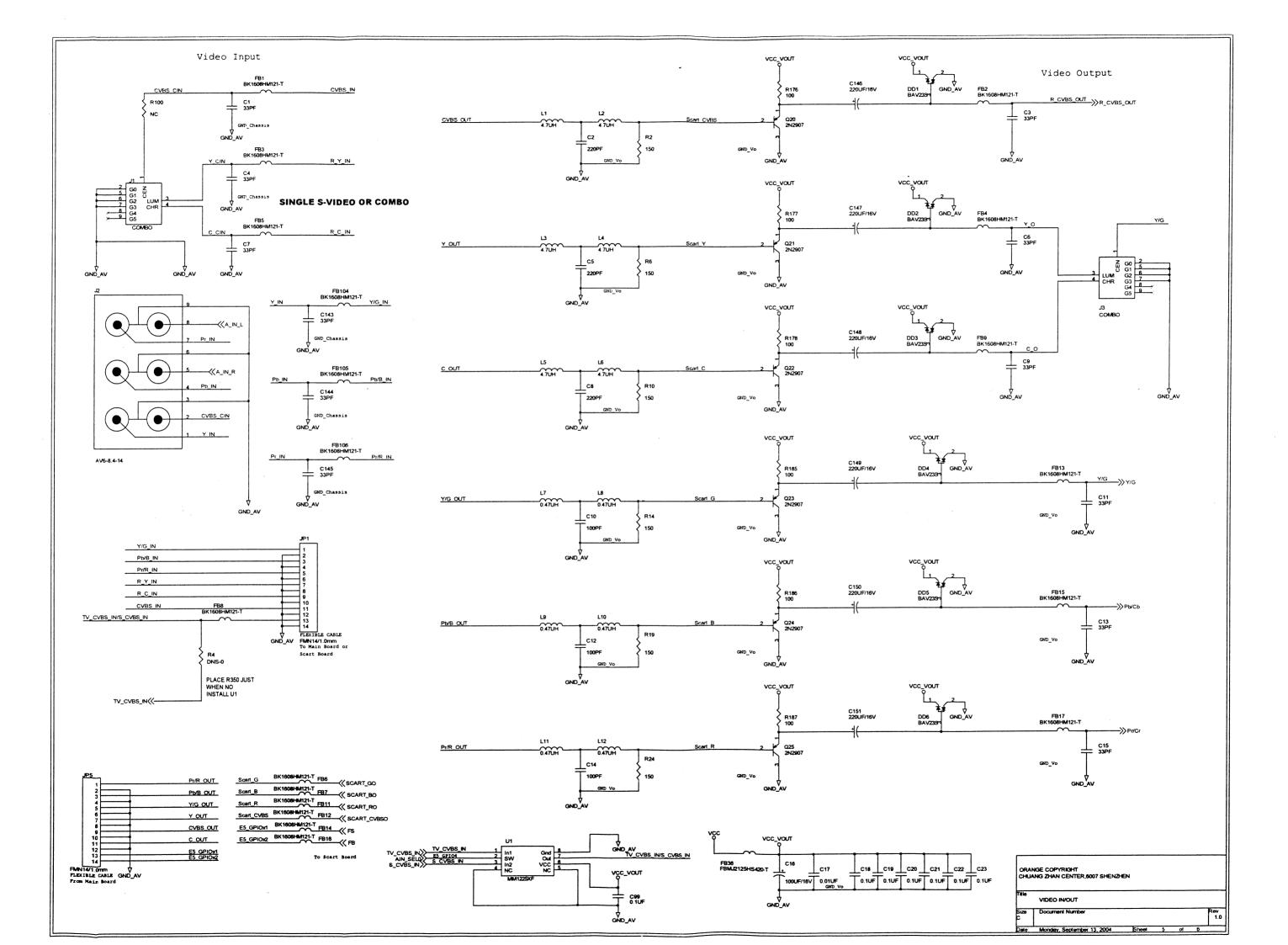


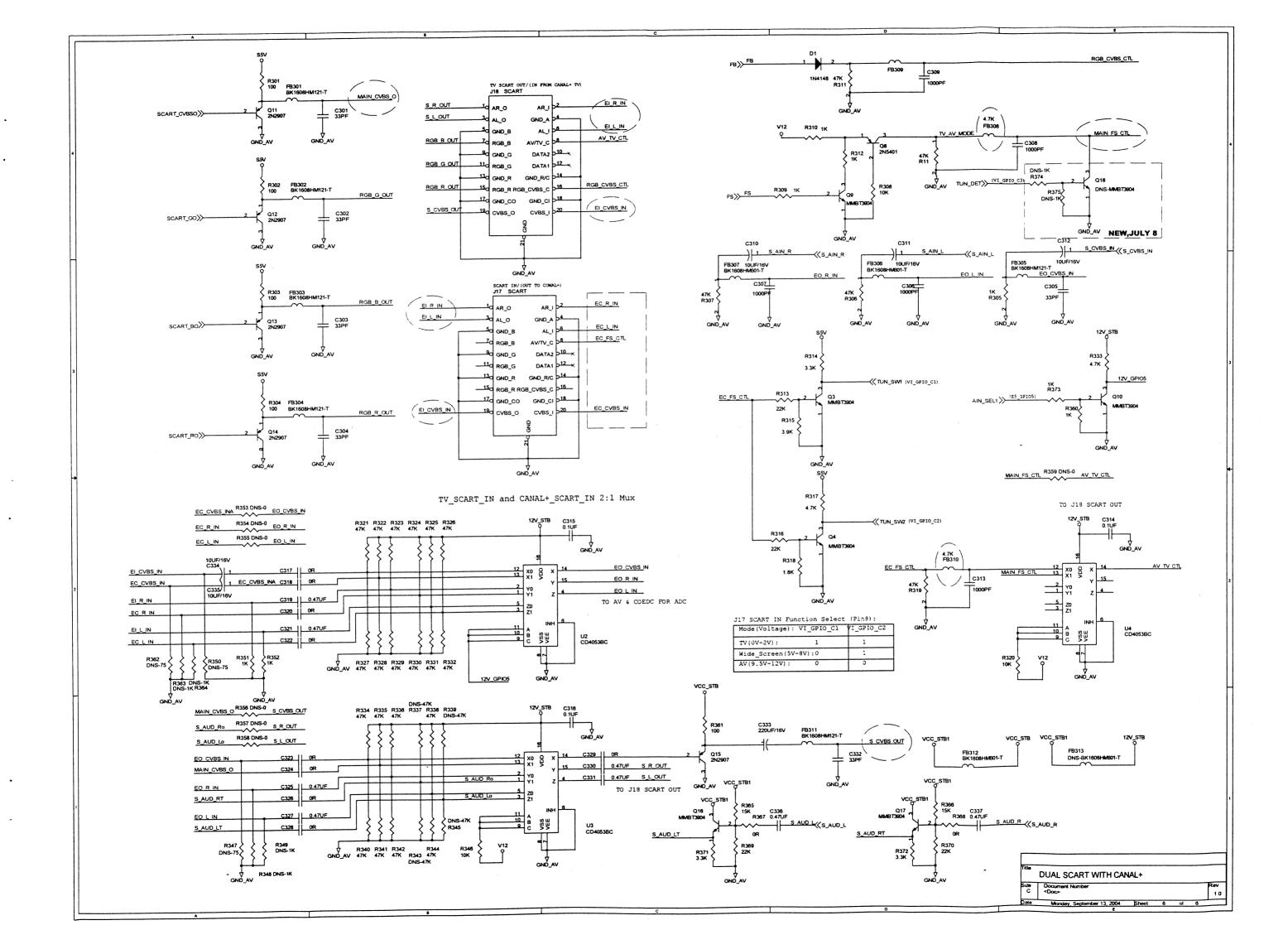


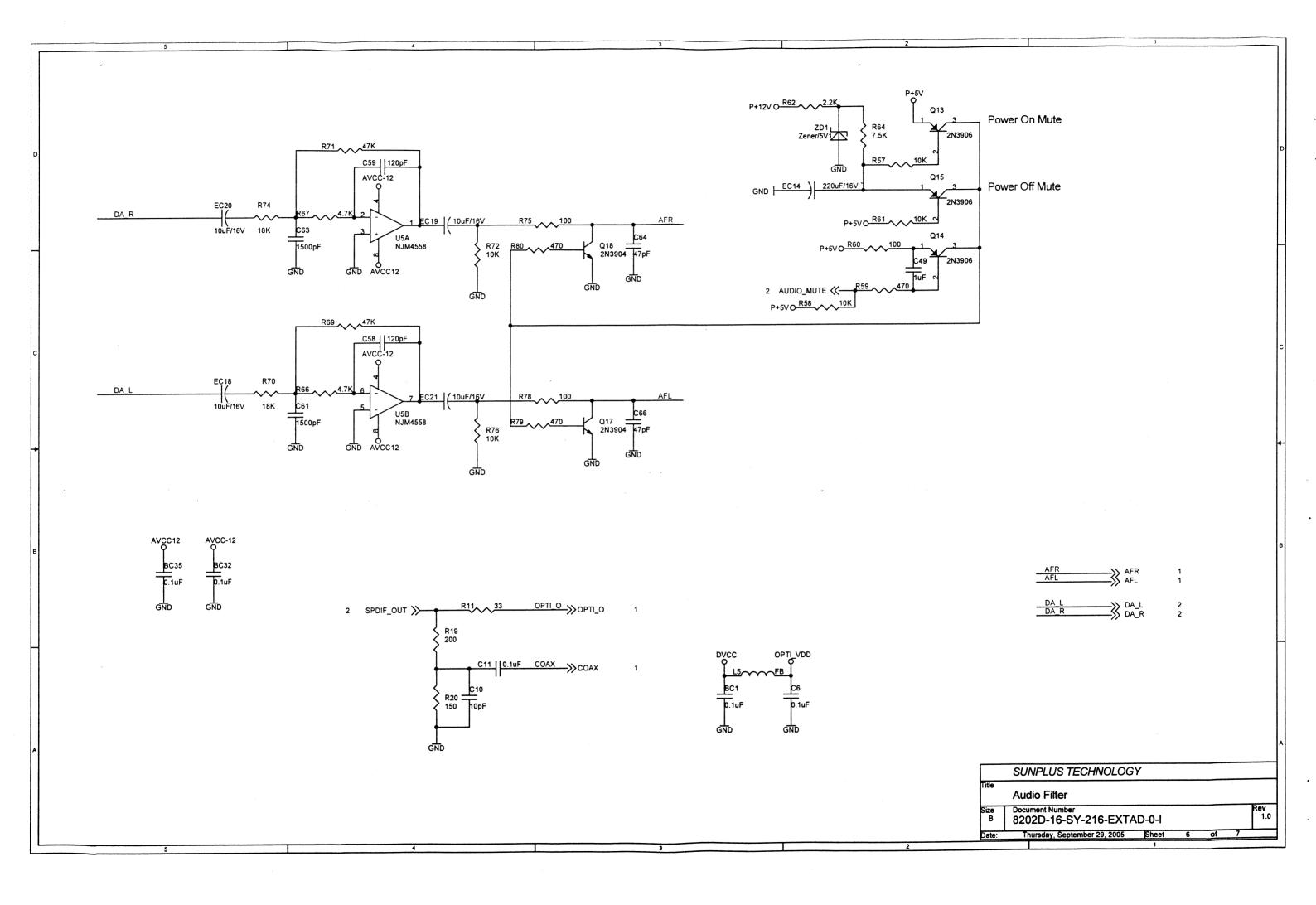


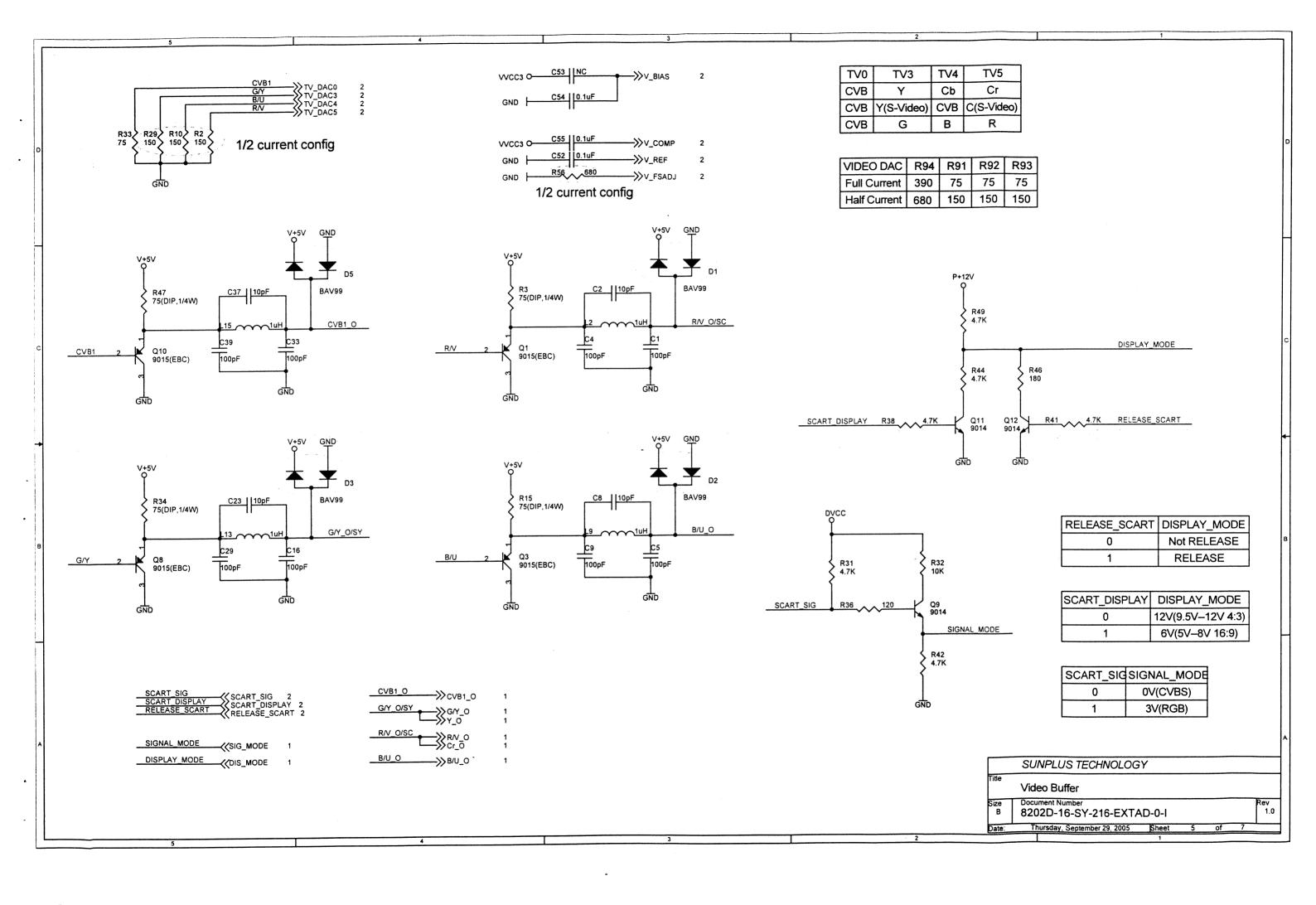


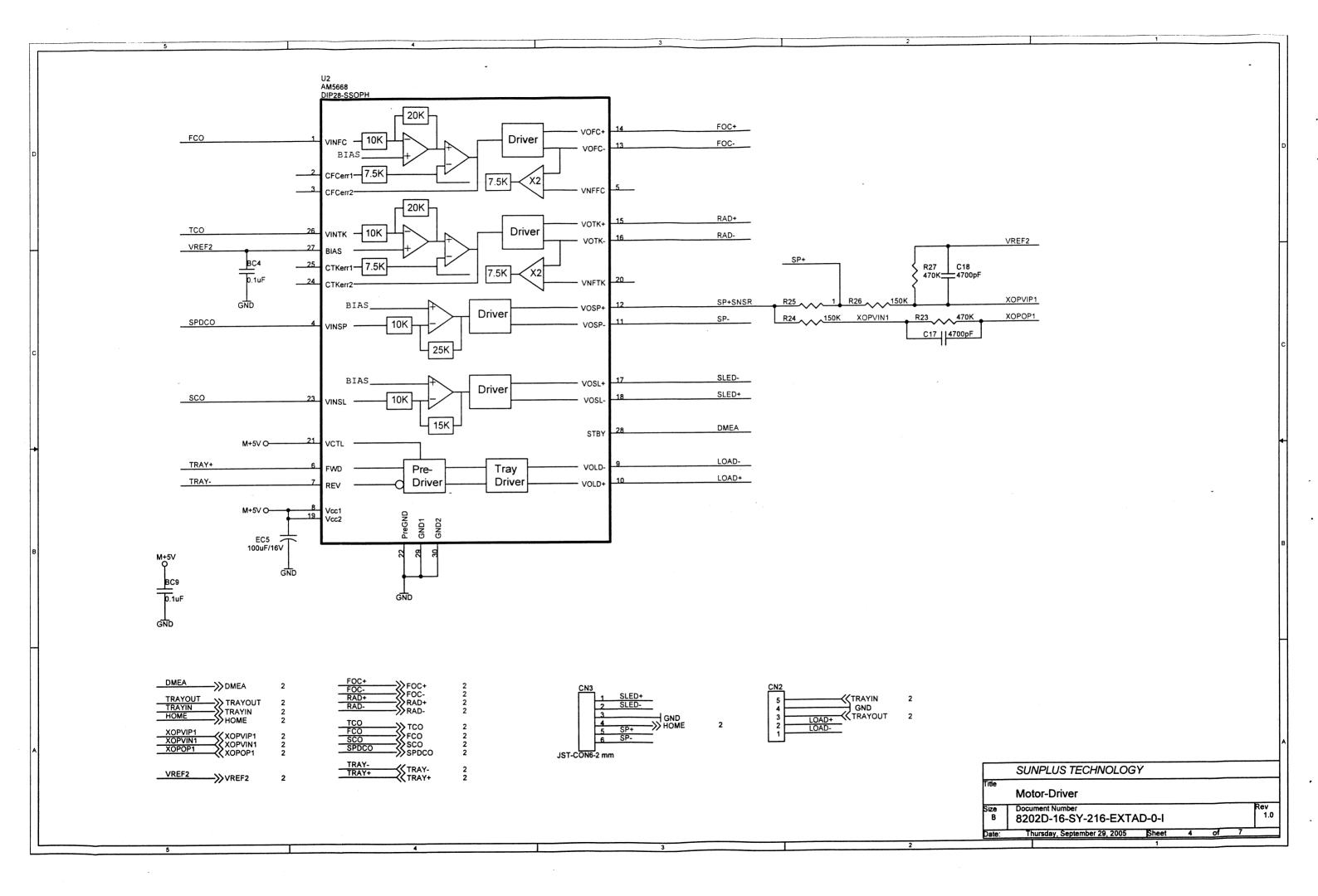


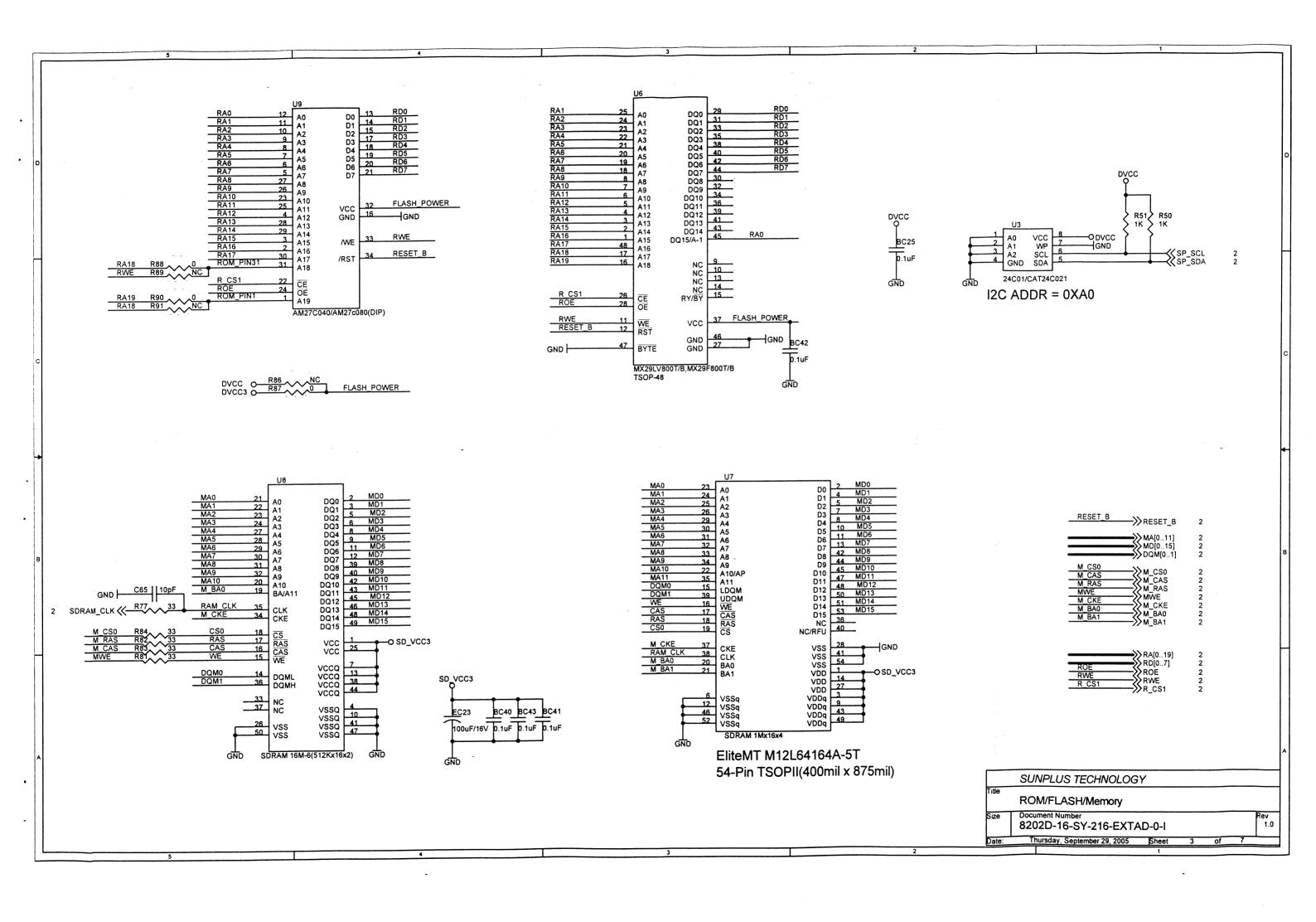


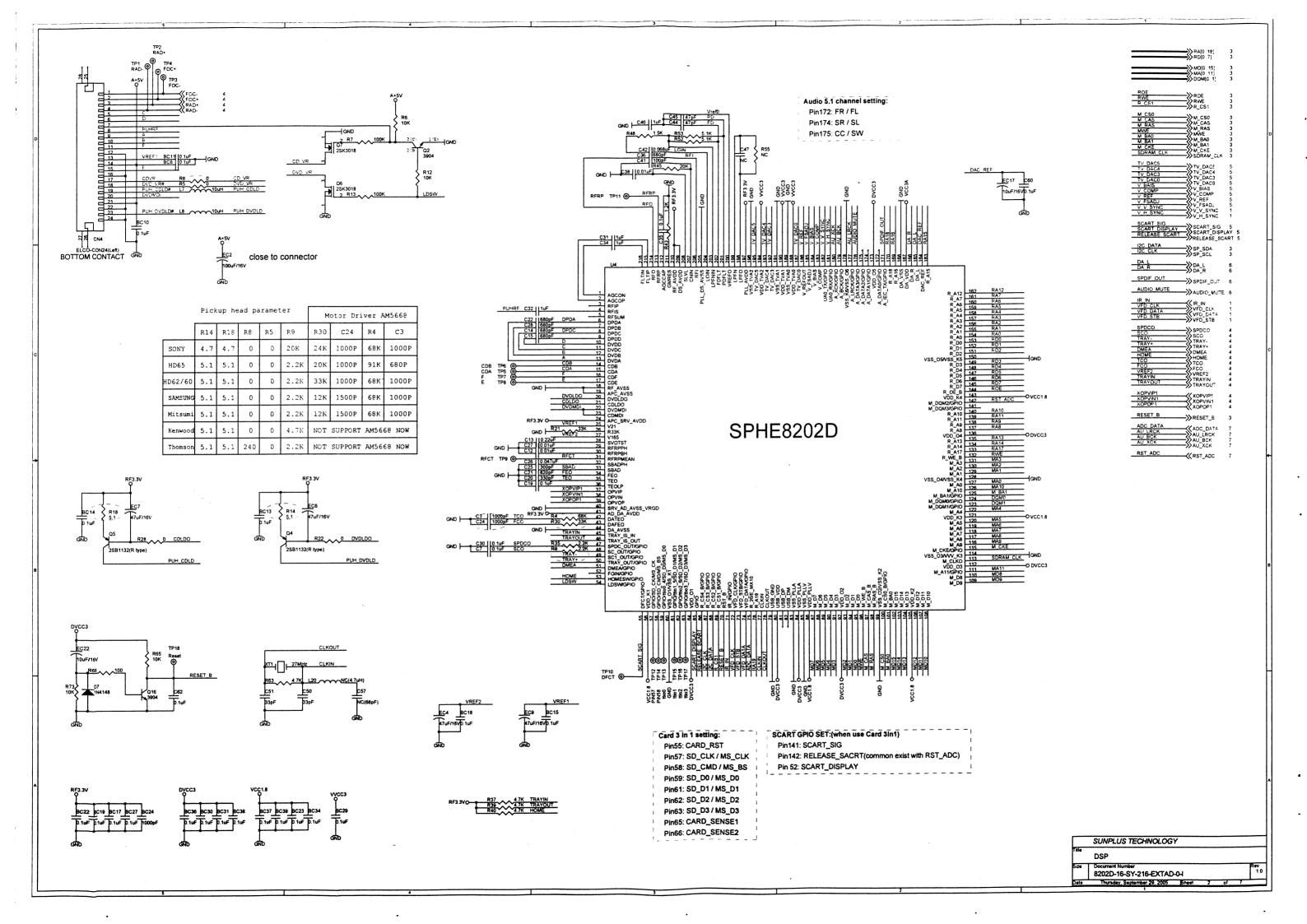


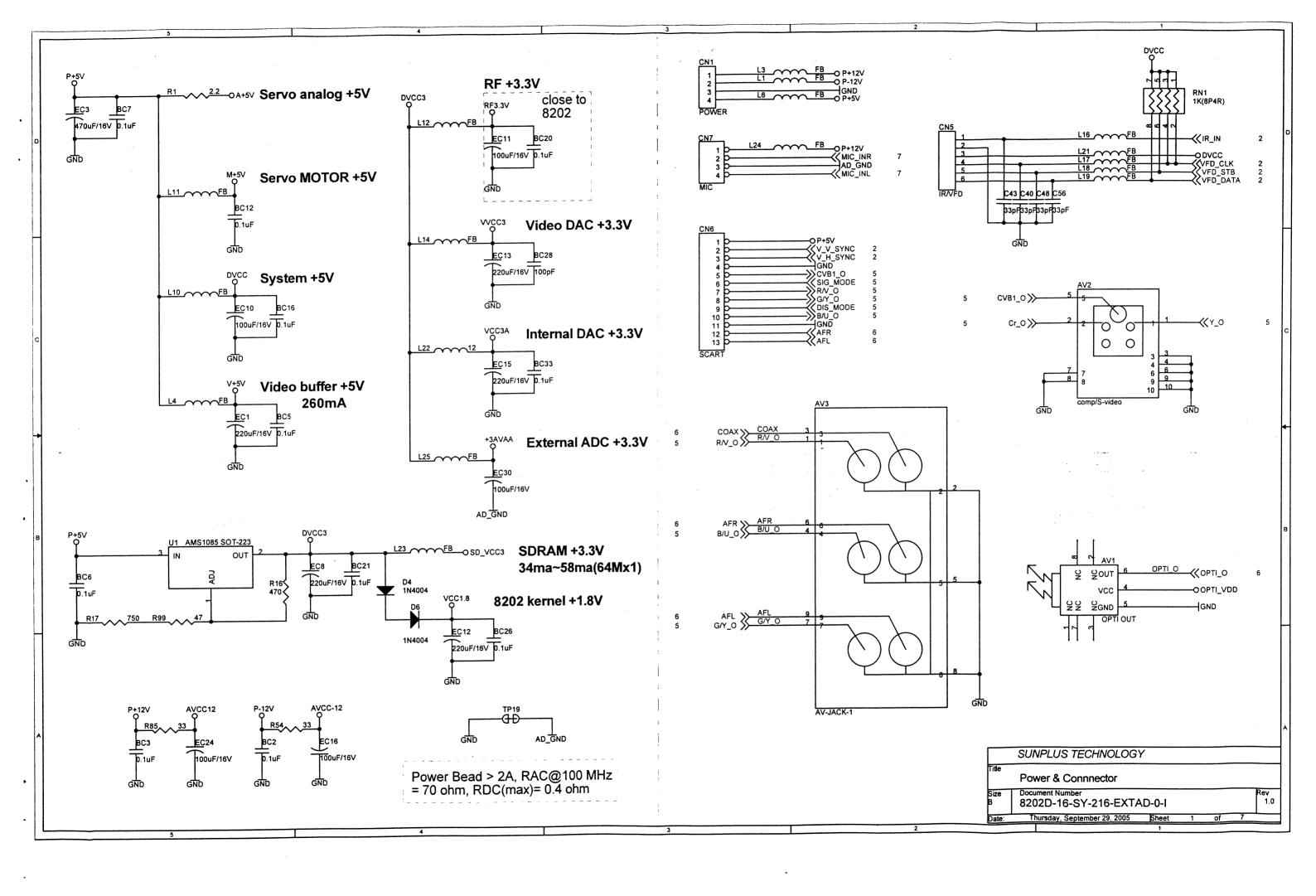


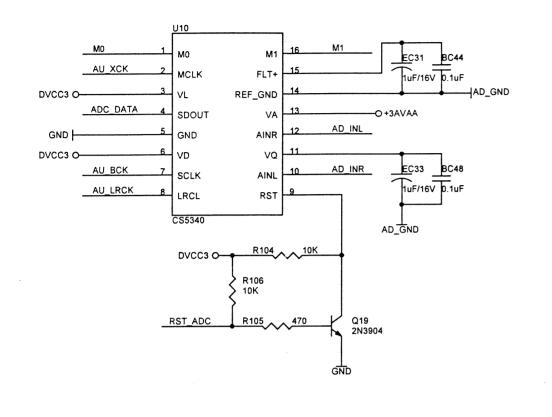




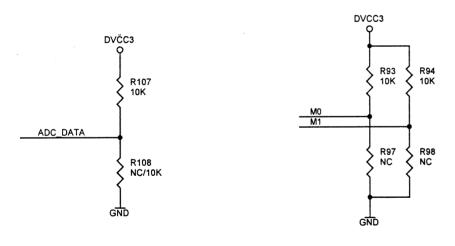


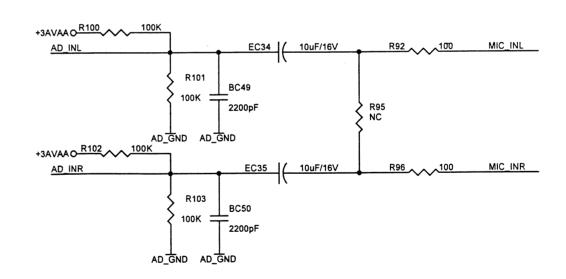








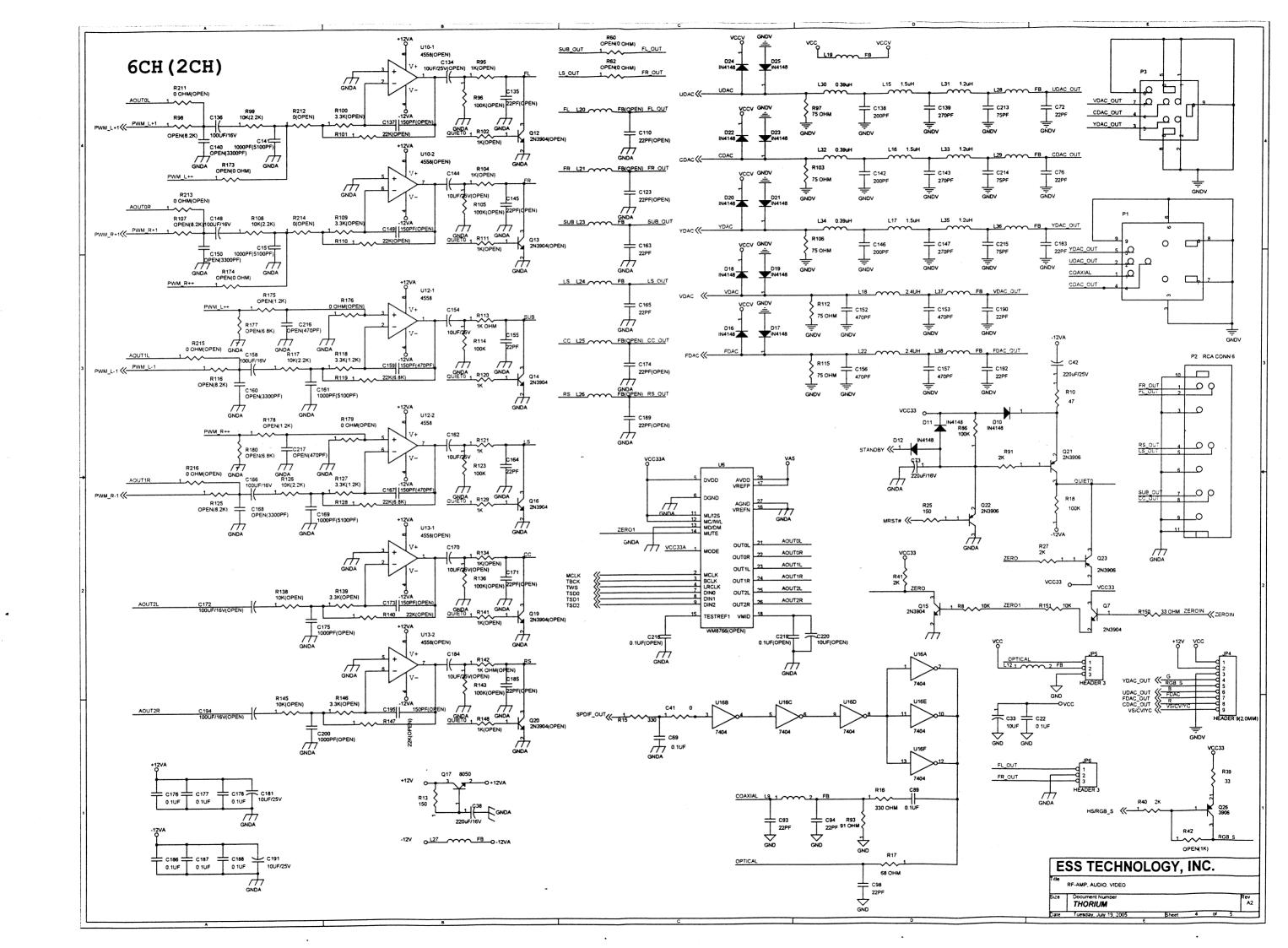




R107	R108	FORMAT
10K	NC	I2S
NC	10K	left justified

M1	MO	MODE					
0	0	Clock Master, Single Speed Mode					
0	1	Clock Master, Double Speed Mode					
1	0	Clock Master, Quad Speed Mode					
1	. 1	Clock Slave, All Speed Modes					

	SUNPLUS TECHNOLOGY	/				
Title	External ADC					
Size B	Document Number 8202D-16-SY-216-EXTA	D-0-I				Rev 1.0
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POW853F原理图 MOS202 K T1 | D10A RT101 L5 **★** D15 L+CE10 CEL4+ - GND D10B _CE18 D101-104 BC101 R103 S12V C4 📥 +2.5V <u>↓</u>CE3 D4 D105 Bl ÅR108 Y101 Y102 MOS101 CE6 BC212 D12 D107 2 X102 CE12 D11 C21 CE8 BC115 🖶 - +12V 7 TP2116 2 CE21 - S12V Ll BC110 R13 CEI7 □ X101 R111 CTL FU1 BC102 ST5V MOS201 D109 R120 OFF5V JP101 CE13 CE20 블 R26 4 U102 1 中 C103 R33 BC113十 SWITCH R21 I/P 100-240VAC TOPOW ELECTRONIC CO,LTD POW853F原理图 5

Manta DVD011 Emperior3 nr płyty ODT22A z układem 8pin, nóżki 1do 4 połczączone razem.

Trzeba wymienić:

1. IC 102 transoptor typowy np Sharp TOM-ELEKTRON z giełdy
2. IC 101 Viper-22A TOM-ELEKTRON z giełdy

3. C104 47nF ceramiczny

4. C102 47uf/400V 105 st C

koniecznie wszystkie wymienić!!!!!!!!!!!!